

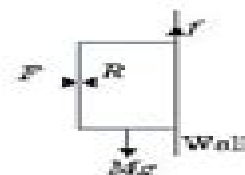
SECTION - C

- Q 18. A car moves from X to Y with a uniform speed U and returns to X with a uniform speed V . What is the average speed for this round trip? (2)
- Q 19. If the velocity of a particle is $v = At + Bt^2$ where A and B are constant, then what is the distance travelled by it between 1 s and 2 s. (2)
- Q 20. If $A = \sqrt{5}$, $B = 3$ & $|\vec{A} \times \vec{B}| = 2 \vec{A} \cdot \vec{B}$. Then find $|\vec{A} + \vec{B}|$ (2)
- Q 21. An object is moving in a circular path with constant speed, Define the following terms (2)
- (a) Angular frequency (b) Time period
- Q 22. A particle is projected with a velocity of 25 m/s at an angle of 30° with the horizontal. Calculate (2)
- (i) the maximum height, (ii) time of flight
- Q 23. For a particle in motion, the distance travelled by it is directly proportional to time. Find the external force acting on it? (2)
- Q 24. Two masses 8 kg and 12 kg are connected at the two ends of a light in extensible string that goes over a frictionless pulley. Find the acceleration of the masses, and the tension in the string when the masses are released. (2)



OR

A block of mass M is held against a rough vertical wall by pressing it with a finger. If the coefficient of friction between the block and the wall is μ and the acceleration due to gravity is g , calculate the minimum force required to be applied by the finger to hold the block against the wall.



SECTION - D

- Q 25. For an object under free fall, discuss the variation of acceleration with time, velocity with time and position of object with time graphically. (3)
- Q 26. Derive a relation between (3)
- (a) Linear displacement and Angular displacement
- (b) Linear velocity and Angular velocity
- Q 27. Give examples of multiplication of a vector by (a) a vector, (b) a scalar and (c) a real number. (3)

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Selected Papers Of Chen Ning Yang li: With Commentaries Chen Ning Yang, 2013-05-10 Professor Chen Ning Yang an eminent contemporary physicist was Professor at the Institute for Advanced Study Princeton New Jersey from 1955 to 1966 and Albert Einstein Professor of Physics at the State University of New York at Stony Brook until his retirement in 1999 He has been Distinguished Professor at Large at the Chinese University of Hong Kong since 1986 and Professor at Tsinghua University Beijing since 1998 Since receiving his PhD from the University of Chicago in 1948 Prof Yang has made great impacts in both abstract theory and phenomenological analysis in modern physics In 1983 he published *Selected Papers 1945-1980 With Commentary* It has been considered by Freeman Dyson as one of his favorite books The present book is a sequel to that earlier volume It is a collection of his personally selected papers 1971-2012 supplemented by his insightful commentaries Its contents reflect Professor Yang's changing interests after he reached age sixty It also includes commentaries written by him in 2011 when he is 89 years old The papers and commentaries in this unique collection comprise a remarkable personal and professional chronicle shedding light on both the intellectual development of a great physicist and on the nature of scientific inquiry

Measurement, Instrumentation, and Sensors Handbook John G. Webster, Halit Eren, 2017-12-19 The Second Edition of the bestselling *Measurement Instrumentation and Sensors Handbook* brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the *Electromagnetic Optical Radiation Chemical and Biomedical Measurement* volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development *Measurement Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement* provides readers with a greater understanding of advanced applications

Induction Motor Fault Diagnosis Subrata Karmakar, Surajit Chattopadhyay, Madhuchhanda Mitra, Samarjit Sengupta, 2016-04-04 This book covers the diagnosis and assessment of the various faults which can occur in a three phase induction motor namely rotor broken bar faults rotor mass unbalance faults stator winding faults single phasing faults and crawling Following a brief introduction the second chapter describes the construction and operation of an induction motor then reviews the range of known motor faults some existing techniques for fault analysis and some useful

signal processing techniques It includes an extensive literature survey to establish the research trends in induction motor fault analysis Chapters three to seven describe the assessment of each of the five primary fault types In the third chapter the rotor broken bar fault is discussed and then two methods of diagnosis are described i diagnosis of the fault through Radar analysis of stator current Concordia and ii diagnosis through envelope analysis of motor startup current using Hilbert and Wavelet Transforms In chapter four rotor mass unbalance faults are assessed and diagnosis of both transient and steady state stator current has been analyzed using different techniques If both rotor broken bar and rotor mass unbalance faults occur simultaneously then for identification an algorithm is provided in this chapter Chapter five considers stator winding faults and five different analysis techniques chapter six covers diagnosis of single phasing faults and chapter seven describes crawling and its diagnosis Finally chapter eight focuses on fault assessment and presents a summary of the book together with a discussion of prospects for future research on fault diagnosis

Research and Applications in Global

Supercomputing Segall, Richard S.,Cook, Jeffrey S.,Zhang, Qingyu,2015-01-31 Rapidly generating and processing large amounts of data supercomputers are currently at the leading edge of computing technologies Supercomputers are employed in many different fields establishing them as an integral part of the computational sciences Research and Applications in Global Supercomputing investigates current and emerging research in the field as well as the application of this technology to a variety of areas Highlighting a broad range of concepts this publication is a comprehensive reference source for professionals researchers students and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines *150 technical questions and answers for job interview Offshore Oil & Gas Platforms* Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 220 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

Polymer Composites and Nanocomposites for X-Rays Shielding It Meng Low,Nurul Zahirah Noor Azman,2020-01-03 This book focuses on the processing materials design characterisation and properties of polymer composites and nanocomposites for use as electromagnetic radiation shielding materials and to enhance radiation shielding capacity in order to meet the safety requirements for use in medical X ray imaging facilities It presents an in depth analysis of materials synthesis methods such as melt mixing ion implantation solution casting and electrospinning In addition it measures the X ray attenuation behaviour of fabricated composites and nanocomposites in four

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prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Aircraft Propulsion Saeed Farokhi,2025-05-21 Updated edition of the successful textbook exploring cutting edge developments in the field and Net Zero aviation goals of 2050 Maintaining the successful foundation of previous editions the fourth edition of Aircraft Propulsion is a forward looking textbook on propulsion from the basic principles to more advanced treatments in engine components and system integration that focuses on the Net Zero Aviation goals of 2050 This book explores the alphabet of the emerging technology in propulsion by emphasizing electrification and sustainable aviation fuels SAF including liquefied natural gas LNG and hydrogen This book also covers advanced topics like flow control adaptive cycle engines ACE hybrid electric propulsion pulse detonation engines PDE propulsion integration and engine performance testing and instrumentation Along with content updates this new edition devotes a new chapter to supersonic and hypersonic propulsion End of chapter problem sets are included as a learning aid with solutions available on a companion website A quiz appendix with 45 10 minute quizzes helps readers test their knowledge at every stage of learning Aircraft Propulsion includes information on Engine thrust and performance parameters gas turbine engine cycle analysis and aircraft engine inlets and nozzles Combustion chambers and afterburners axial flow compressor and fan aerodynamics centrifugal compressor aerodynamics and gas turbine aerodynamics and heat transfer and cooling technologies Aircraft engine component matching and off design analysis Available on a companion website Compressible flow with friction and heat general aviation and uninhabited aerial vehicle propulsion systems propeller theory and chemical rocket propulsion Aircraft Propulsion is an essential reference on the subject for aerospace and mechanical engineering students in their upper undergraduate or first year graduate studies practicing engineers in industry and research centers working on sustainability and aviation industry engineers Nanocellulose and Sustainability Koon-Yang Lee,2018-01-03 Nanometre scale cellulose fibres or nanocellulose are emerging materials for various advanced applications Nanocellulose and Sustainability Production Properties Applications and Case Studies provides a comprehensive overview of nanocellulose production nanocellulose properties and nanocellulose in selected applications This book serves as an entry level reference text for undergraduates graduate students researchers and professional engineers working in the area of nanocellulose and sustainability Features Summarises the surface and bulk properties of various types of nanocellulose Reviews the application of nanocellulose in water purification and optically transparent materials Provides an overview of nanocellulose as Pickering emulsifier binder for loose natural fibres to produce non woven preforms as well as nanocellulose based aerogels Presents a techno economic

analysis of industrial bacterial cellulose production Discusses the pilot scale production of cellulose nanocrystals

Thermochemical Processing of Biomass Robert C. Brown, 2019-05-28 A comprehensive examination of the large number of possible pathways for converting biomass into fuels and power through thermochemical processes Bringing together a widely scattered body of information into a single volume this book provides complete coverage of the many ways that thermochemical processes are used to transform biomass into fuels chemicals and power Fully revised and updated this new edition highlights the substantial progress and recent developments that have been made in this rapidly growing field since publication of the first edition and incorporates up to date information in each chapter Thermochemical Processing of Biomass Conversion into Fuels Chemicals and Power 2nd Edition incorporates two new chapters covering condensed phased reactions of thermal deconstruction of biomass and life cycle analysis of thermochemical processing systems It offers a new introductory chapter that provides a more comprehensive overview of thermochemical technologies The book also features fresh perspectives from new authors covering such evolving areas as solvent liquefaction and hybrid processing Other chapters cover combustion gasification fast pyrolysis upgrading of syngas and bio oil to liquid transportation fuels and the economics of thermochemically producing fuels and power and more Features contributions by a distinguished group of European and American researchers offering a broad and unified description of thermochemical processing options for biomass Combines an overview of the current status of thermochemical biomass conversion as well as engineering aspects to appeal to the broadest audience Edited by one of Biofuels Digest's Top 100 People in bioenergy for six consecutive years Thermochemical Processing of Biomass Conversion into Fuels Chemicals and Power 2nd Edition will appeal to all academic researchers process chemists and engineers working in the field of biomass conversion to fuels and chemicals It is also an excellent book for graduate and advanced undergraduate students studying biomass biofuels renewable resources and energy and power generation

Cellular Automata Jaroslaw Was, Georgios Sirakoulis, Stefania Bandini, 2014-09-12 This book constitutes the proceedings of the 11th International Conference on Cellular Automata for Research and Industry ACRI 2014 held in Krakow Poland in September 2014 The 67 full papers and 7 short papers presented in this volume were carefully reviewed and selected from 125 submissions They are organized in topical sections named theoretical results on cellular automata cellular automata dynamics and synchronization modeling and simulation with cellular automata cellular automata based hardware and computing cryptography networks and pattern recognition with cellular automata The volume also contains contributions from ACRI 2014 workshops on crowds and cellular automata asynchronous cellular automata traffic and cellular automata and agent based simulation and cellular automata

Algorithmic Techniques for the Polymer Sciences Bradley S. Tice, 2014-10-27 This new book the first of its kind examines the use of algorithmic techniques to compress random and non random sequential strings found in chains of polymers The book is an introduction to algorithmic complexity Examples taken from current research in the polymer sciences are used for compression of like

natured properties as found on a chain of polymers Both theory and applied aspects of algorithmic compression are reviewed A description of the types of polymers and their uses is followed by a chapter on various types of compression systems that can be used to compress polymer chains into manageable units The work is intended for graduate and postgraduate university students in the physical sciences and engineering

Quest for the Unity of Knowledge David Lowenthal, 2018-11-01 Is unity of knowledge possible Is it desirable Two rival visions clash One seeks a single way of explaining everything known and knowable about ourselves and the universe The other champions diverse modes of understanding served by disparate kinds of evidence Contrary views pit science against the arts and humanities Scientists generally laud and seek convergence Artists and humanists deplore amalgamation as a threat to humane values These opposing perspectives flamed into hostility in the 1950s Two Cultures clash They culminate today in new efforts to conjoin insights into physical nature and human culture and new fears lest such syntheses submerge what the arts and humanities most value This book stemming from David Lowenthal's inaugural Stockholm Archipelago Lectures explores the Two Cultures quarrel's underlying ideologies Lowenthal shows how ingrained bias toward unity or diversity shapes major issues in education religion genetics race relations heritage governance and environmental policy Aimed at a general academic audience *Quest for the Unity of Knowledge* especially targets those in conservation ecology history of ideas museology and heritage studies

Natural and Human-Induced Hazards and Disasters in Africa Simelane, Thokozani, 2019-02-25 Natural and human induced environmental hazards are becoming increasingly prominent The frequency of recorded natural disasters rose markedly during the last century from about 100 per in the years up to 1940 to nearly 2800 during the 1990s Africa is the only continent whose share of reported disasters has increased over the past decade Several factors contribute to Africa's high vulnerability to disasters These include the high rate of population growth food insecurity high levels of poverty inappropriate use of natural resources and failures of policy and institutional frameworks Despite the huge negative impact of natural and human induced hazards on Africa's development little is done to prevent them Disaster prevention contributes to lasting improvement in safety and sustainable livelihoods and is essential as part of integrated disaster management strategies The provision of effective scientific input to policy formulation on various issues related to hazards and disasters is an ambitious undertaking It requires the collaborative effort of the African scientific community to develop comprehensive long term strategies and human capacity building initiatives that will enable science to benefit society This will further require a Building strong research and training institutions in Africa at national and regional levels b Facilitating the exchange of scientific information and sharing of ideas across borders c Strengthening the link between scientific research and policy making d Promoting outreach activities to build resilience to disaster risk and e Tapping the knowledge base of rural and urban communities In this volume the ICSU ROA has brought together selected African scientific researchers to share their views on policy direction for facing challenges linked to natural and human induced hazards The book is intended

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